

Figure 1

Cell-Based cAMP Assay

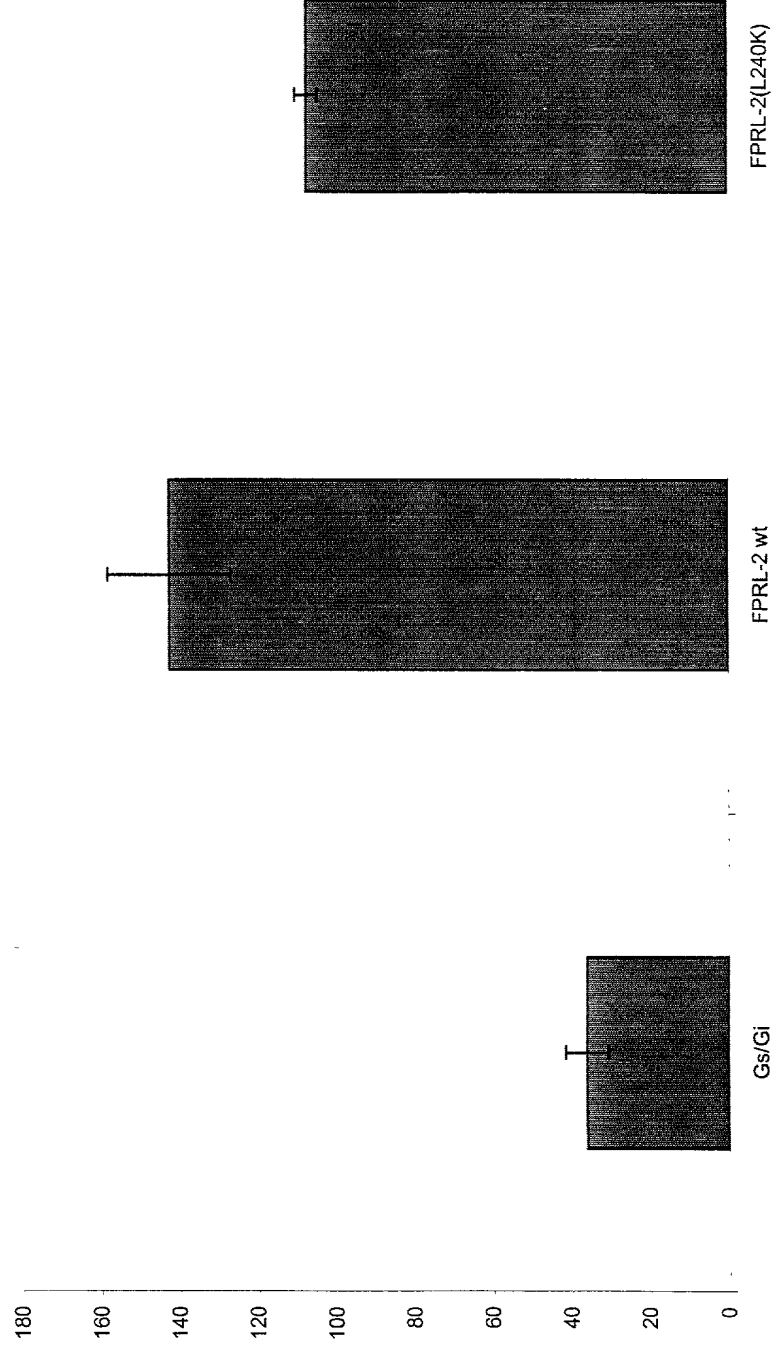
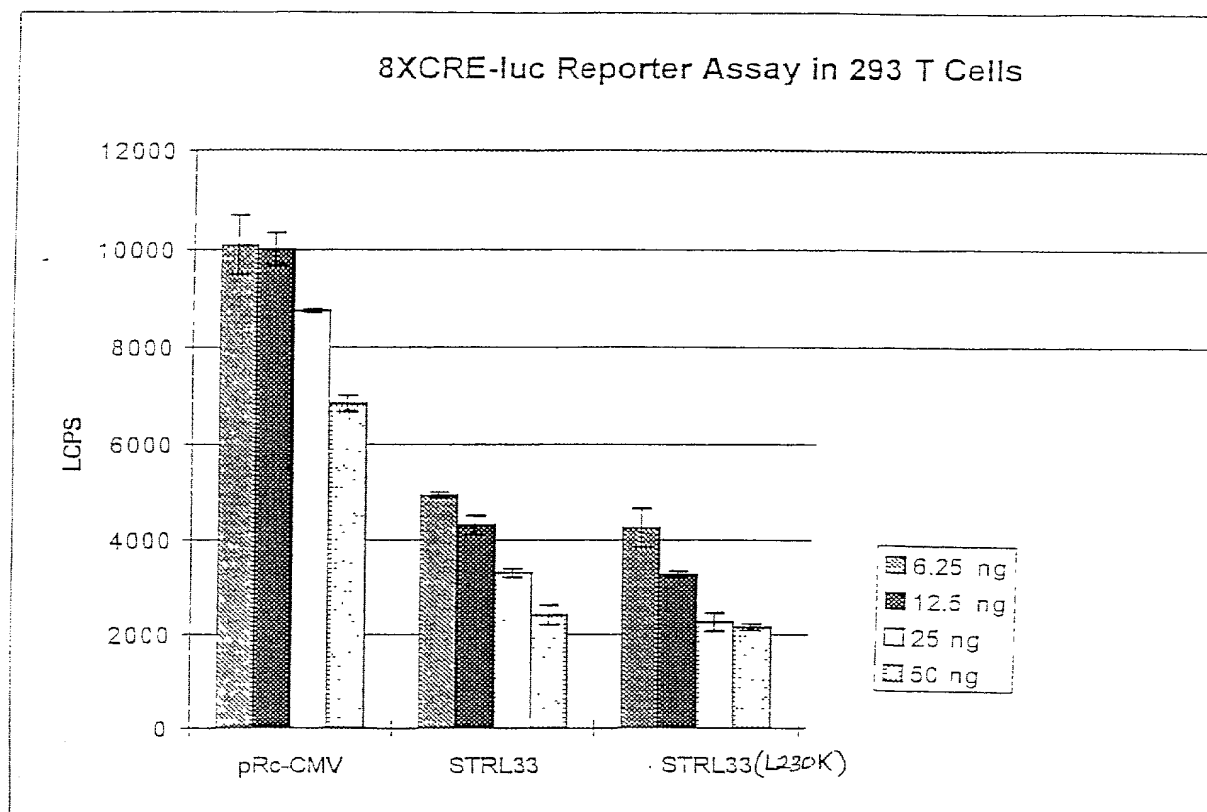


Figure 2



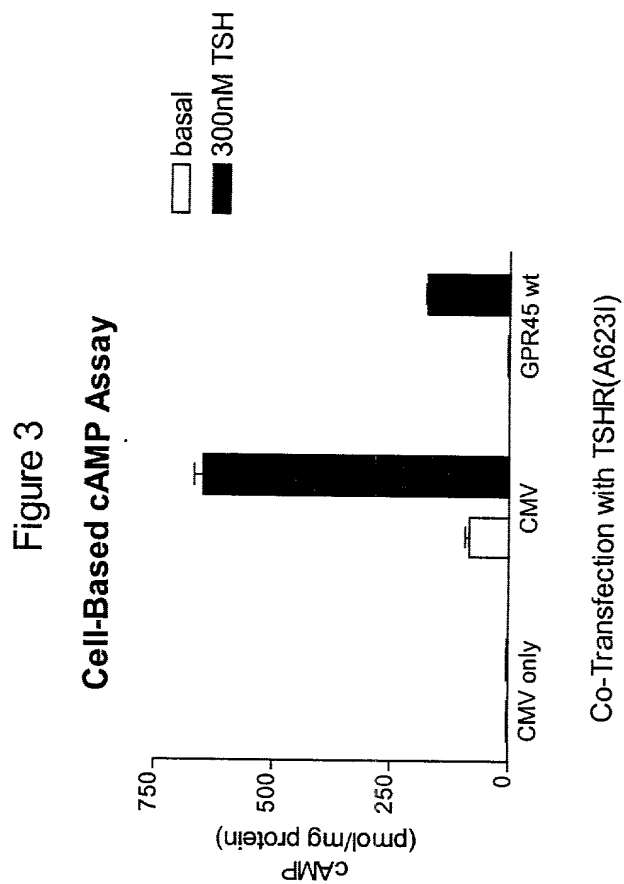
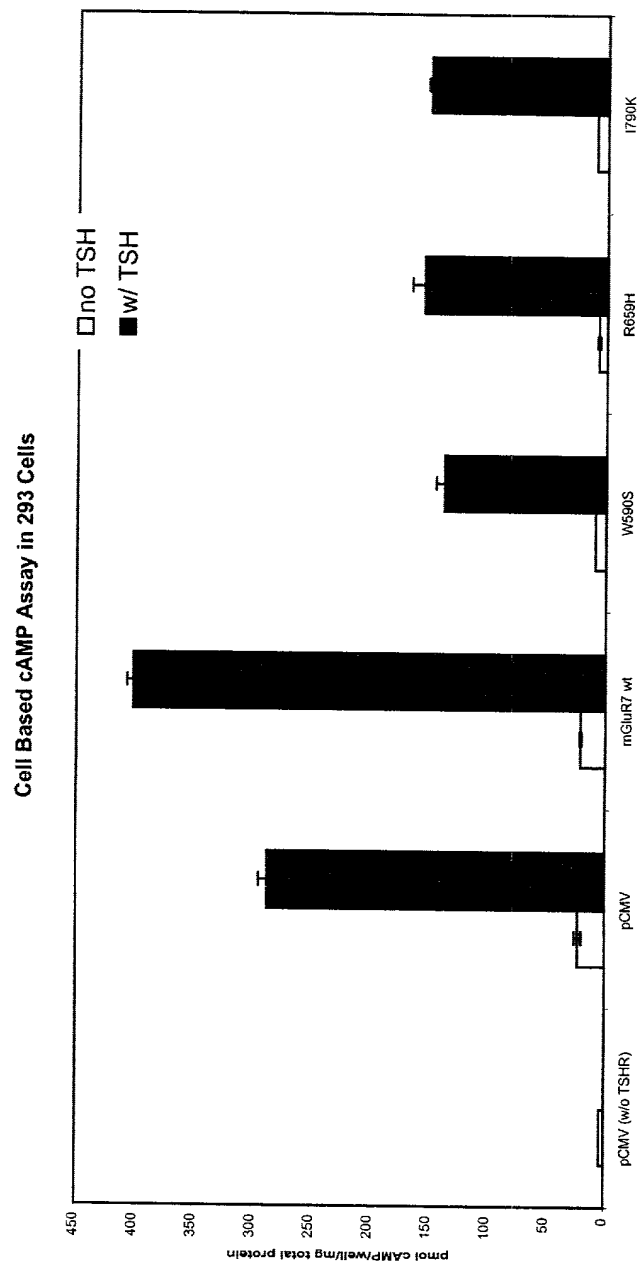


Figure 4



Co-Transfection with TSHR(A623I)

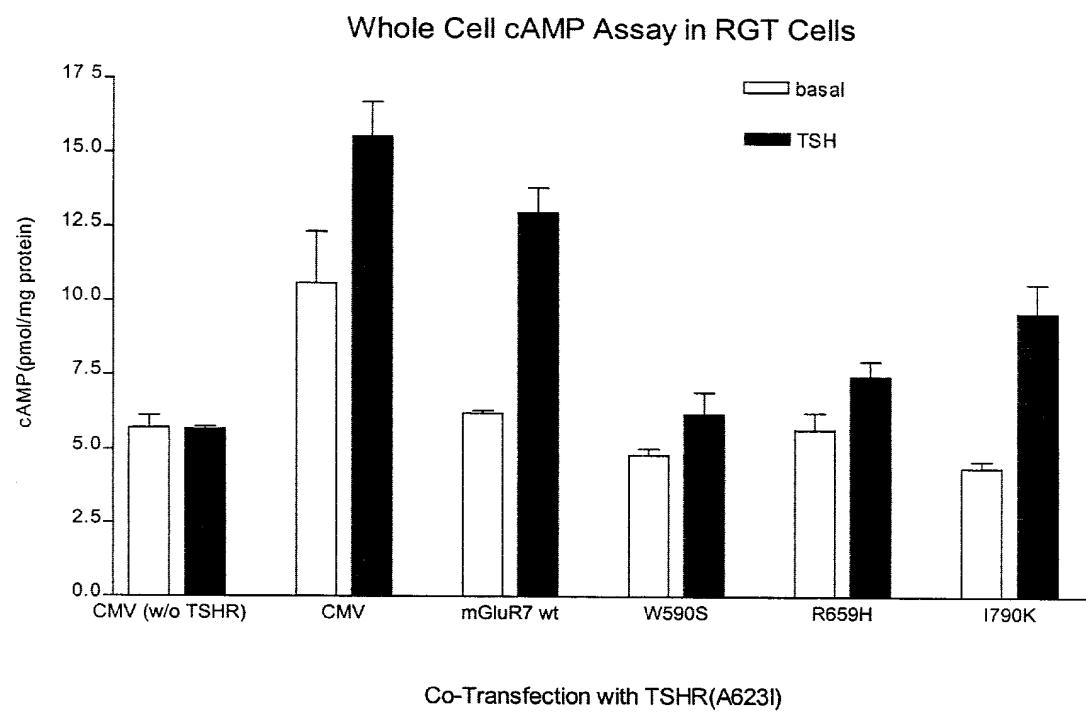


Figure 5

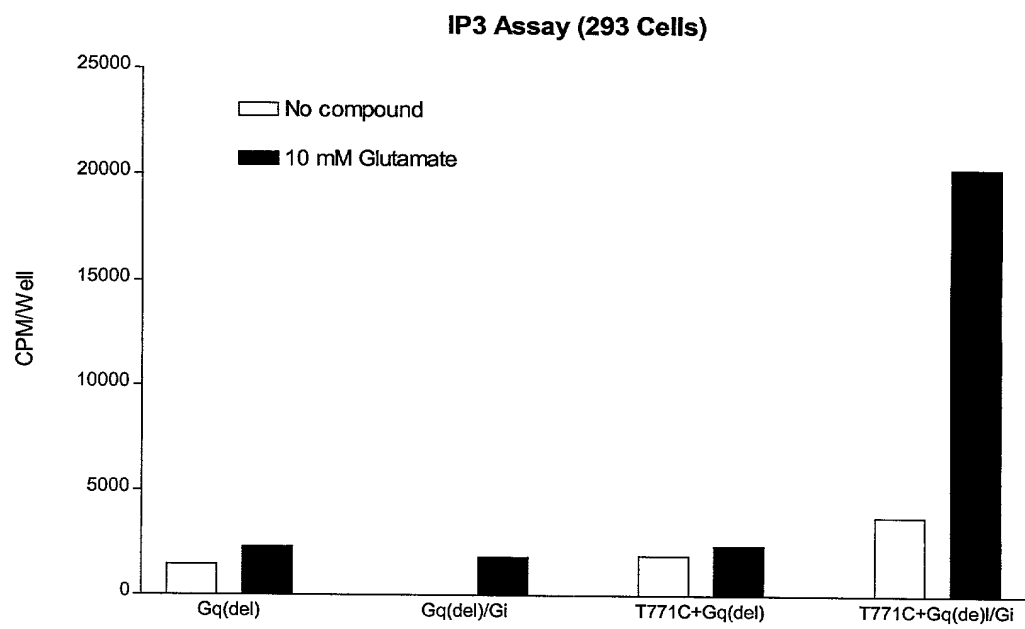


Figure 6

SRE Reporter Assay

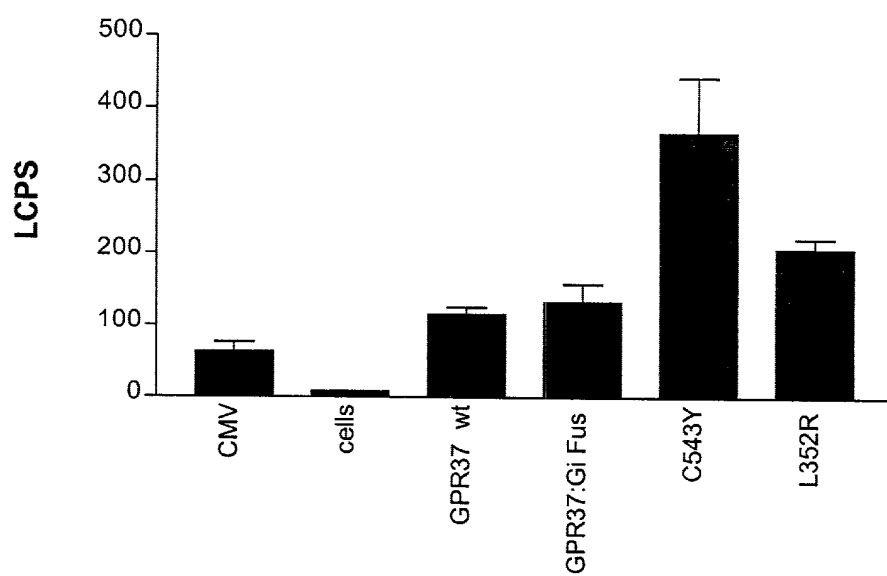
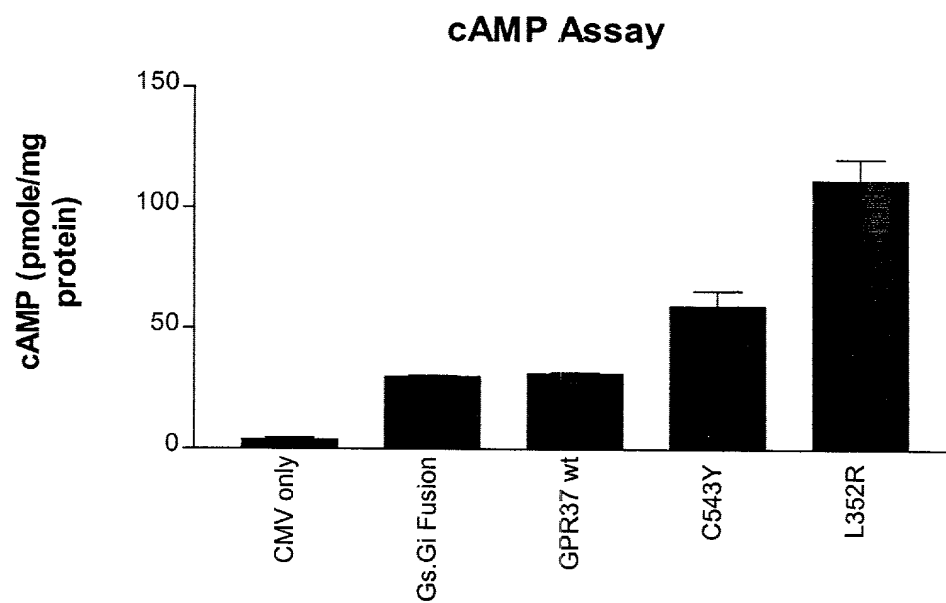


Figure 7



Co-transfection with Gs/Gi Fusion

Figure 8

Northern Analysis of GPCR GPR37 expression in forskolin treated Rat Schwann cells

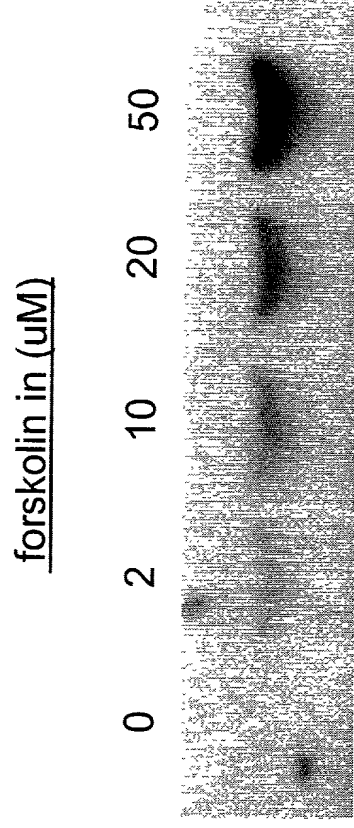


Figure 9

Northern Analysis of GPCR GPR37 Expression in Crushed Rat Sciatic Nerve

Days post-crush

0 1 3 7 10 13



Figure 10

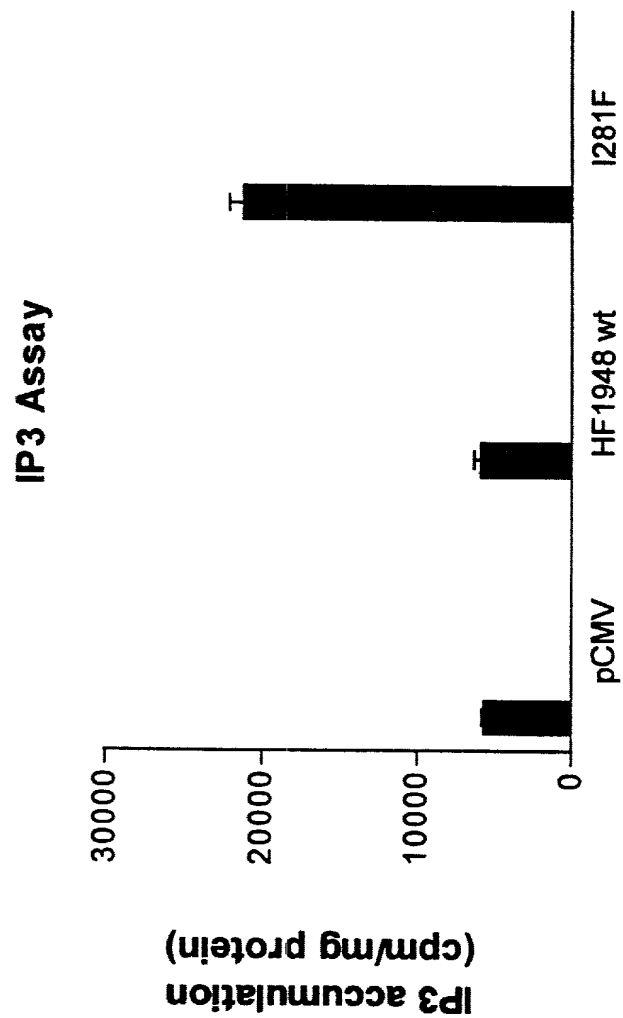
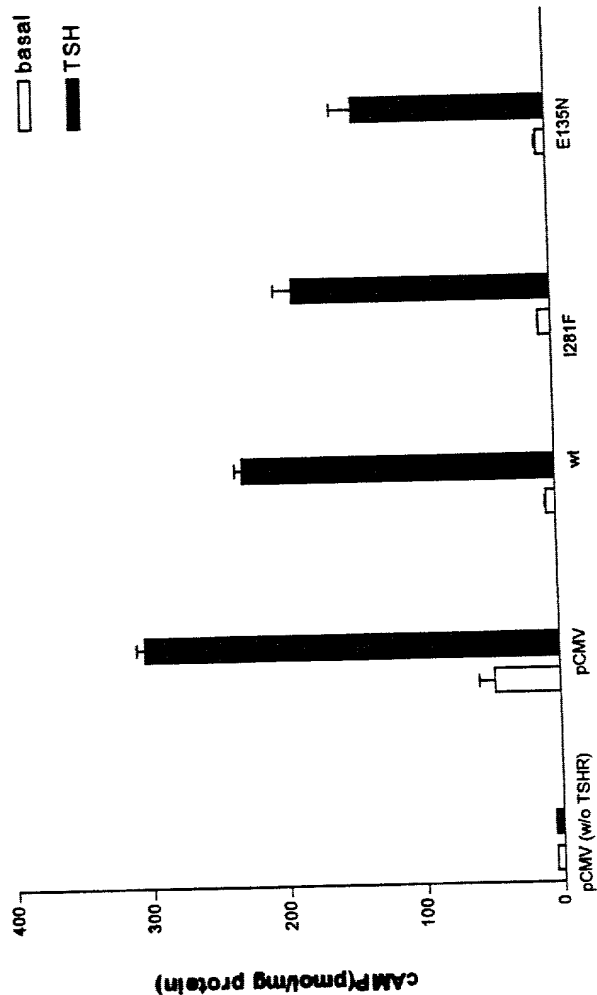


Figure 11

Whole Cell cAMP Assay

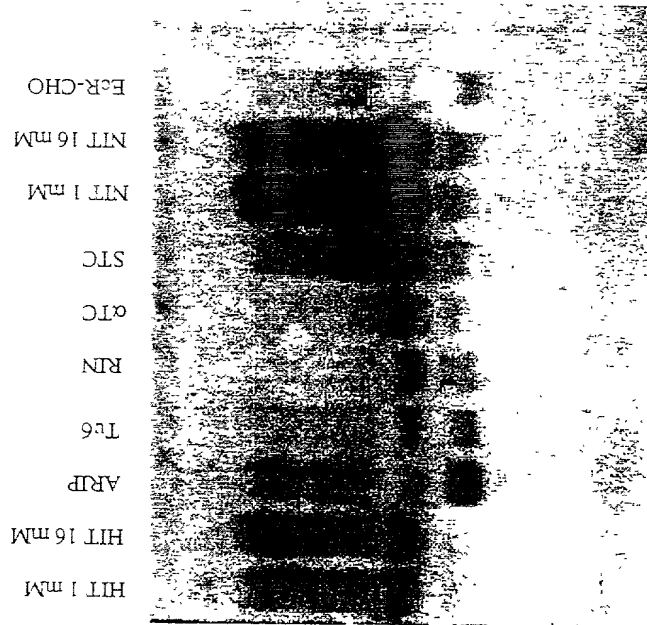


Co-Transfection With TSHR(A623I)

Figure 12

Figure 13

Cell-specific expression of GPR66 variants in pancreatic cell lines



**E2F-Luc activation by GPR35 in
293A cells**

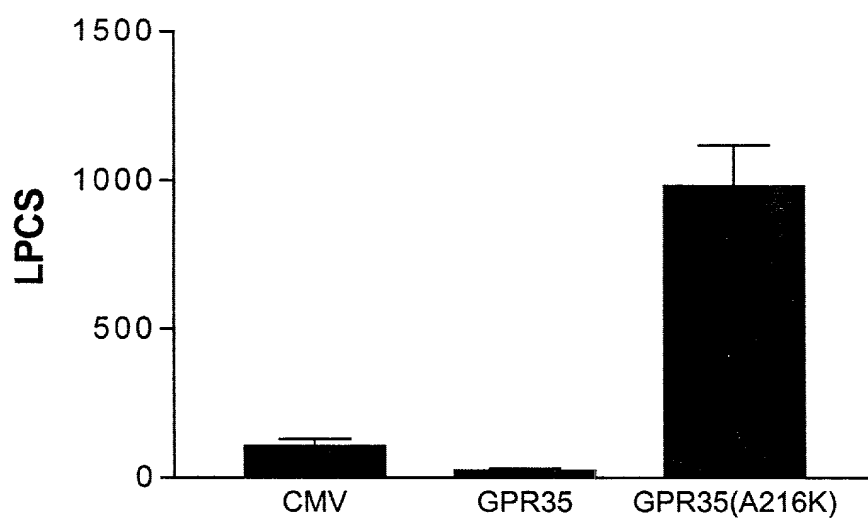
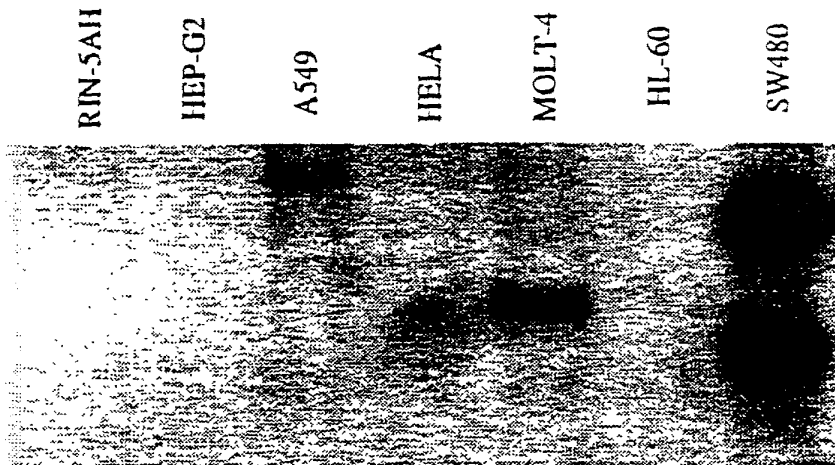


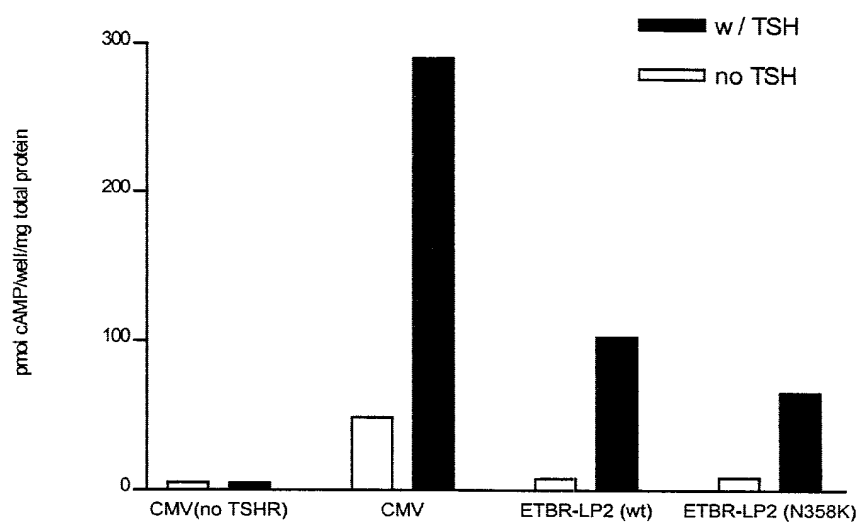
Figure 14

Figure 15

**Expression of GPR35
in colorectal cancer cells**



Adenylate Cyclase Assay



Co-Transfection with TSHR(A623I)

Figure 16

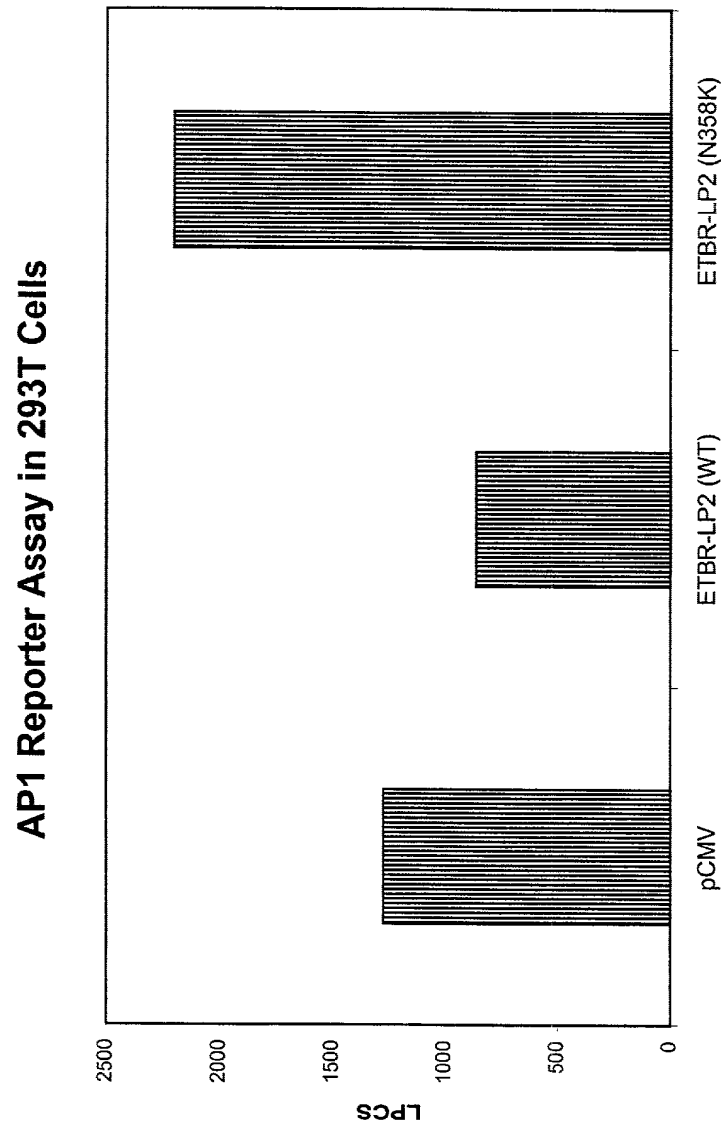


Figure 17

Northern Analysis of ETBR-LP2 in Forskolin Treated Rat Schwann Cells

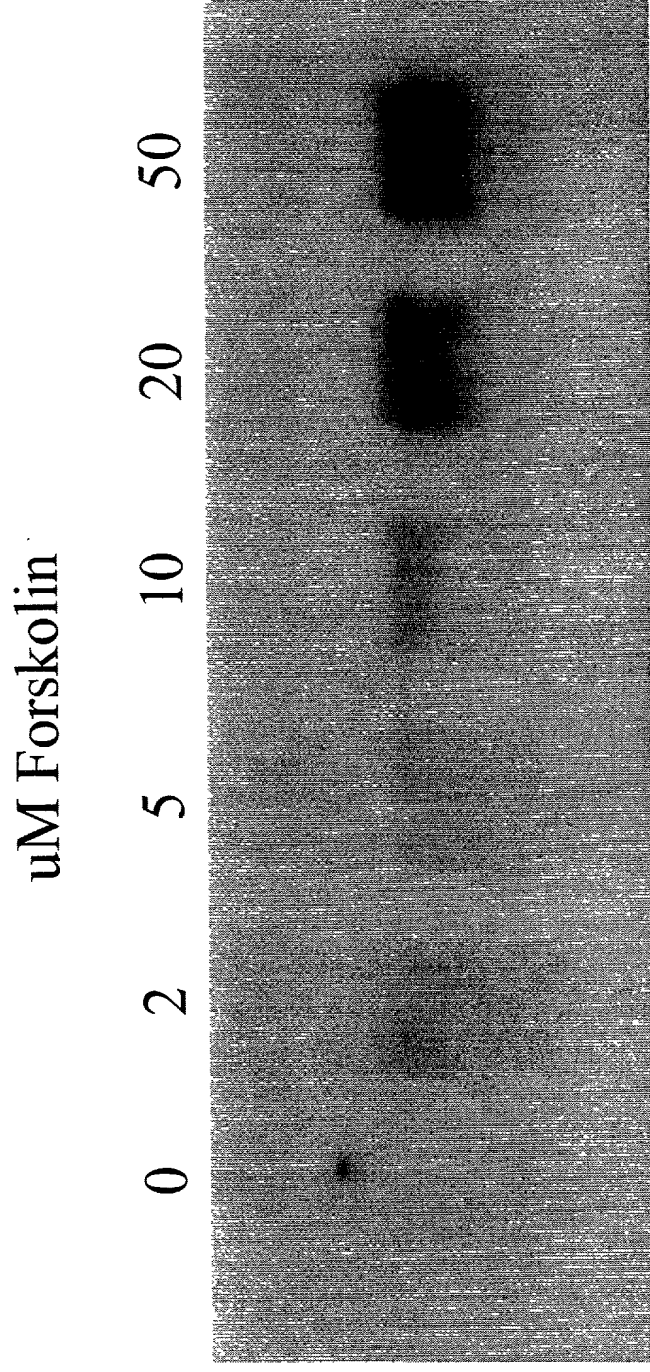


Figure 18

Northern Analysis of ETBR-LP2 Expression in Crushed Rat Sciatic Nerve

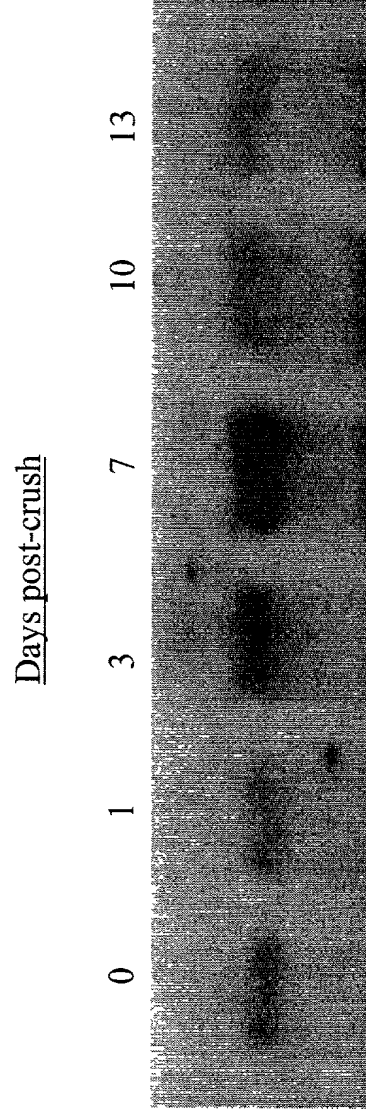


Figure 19

Figure 20A

	M	R	A	L	G	A	A	S	L	A	V	L	L	A	V	G	L	L	K	V	S	G	G	A	A	L	G	V	G	P	A	S	R	N	E	T	C	L	Majority			
1	M	R	W	L	W	P	L	A	V	S	L	A	V	I	L	A	V	G	L	S	R	V	S	G	G	A	P	L	H	L	G	-	-	-	-	-	-	-	-	HETERLP2p		
1	M	R	A	P	G	A	L	L	A	R	M	S	R	L	L	L	L	L	L	L	K	V	S	A	S	S	A	L	G	V	A	P	A	S	R	N	E	T	C	L	HGPR37p	
	G	E	S	C	A	P	T	V	I	Q	R	R	G	R	D	A	W	G	P	G	N	S	A	R	D	V	L	R	A	R	A	E	T	E	E	Q	G	A	A	F	Majority	
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HETERLP2p	
41	G	E	S	C	A	P	T	V	I	Q	R	R	G	R	D	A	W	G	P	G	N	S	A	R	D	V	L	R	A	R	A	P	R	E	E	Q	G	A	A	F	HGPR37p	
	L	A	G	P	S	W	D	L	P	A	A	P	G	R	D	P	A	A	G	R	G	A	E	A	S	A	A	G	P	P	G	P	P	T	R	P	P	G	P	W	Majority	
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HETERLP2p	
81	L	A	G	P	S	W	D	L	P	A	A	P	G	R	D	P	A	A	G	R	G	A	E	A	S	A	A	G	P	P	G	P	P	T	R	P	P	G	P	W	HGPR37p	
	R	W	K	G	A	R	G	T	E	P	S	E	T	L	G	R	G	N	P	T	A	L	Q	L	F	L	Q	I	S	D	E	E	A	K	G	V	Q	G	A	G	Majority	
43	-	-	R	S	K	R	G	T	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HETERLP2p
121	R	W	K	G	A	R	G	Q	E	P	S	E	T	L	G	R	G	N	P	T	A	L	Q	L	F	L	Q	I	S	E	E	E	E	K	G	P	R	G	A	G	HGPR37p	
	I	S	G	R	S	Q	E	Q	S	V	Q	T	V	P	G	A	S	A	L	F	Y	R	P	I	H	A	G	G	L	Q	G	S	H	H	K	P	L	V	A	T	Majority	
58	-	-	-	-	-	-	-	-	-	Q	Y	V	P	E	E	W	A	E	Y	P	R	P	I	H	P	A	G	L	Q	P	T	-	-	K	P	L	V	A	T	HETERLP2p		
161	I	S	G	R	S	Q	E	Q	S	V	K	T	V	P	G	A	S	D	L	F	Y	W	P	R	R	A	G	K	L	O	G	S	H	H	K	P	L	S	K	T	HGPR37p	
	A	N	G	L	A	G	D	G	G	W	T	I	A	L	P	G	S	G	L	A	L	N	G	S	L	G	G	G	I	H	E	P	G	G	P	R	R	G	N	S	Majority	
86	S	P	N	P	D	K	D	G	G	-	-	-	-	T	P	D	S	G	Q	E	L	R	G	N	L	T	G	A	-	-	P	G	-	-	-	-	-	-	-	-	HETERLP2p	
201	A	N	G	L	A	G	H	E	G	W	T	I	A	L	P	G	R	A	L	A	Q	N	G	S	L	G	E	G	I	H	E	P	G	G	P	R	R	G	N	S	HGPR37p	
	T	N	Q	R	V	Q	L	Q	N	P	L	Y	P	V	T	E	S	S	Y	G	A	Y	A	V	M	L	L	A	V	V	V	F	G	V	G	I	V	G	N	L	Majority	
112	-	-	Q	R	L	Q	I	Q	N	P	L	Y	P	V	T	E	S	S	Y	S	A	Y	A	I	M	L	L	A	L	V	V	F	A	V	G	I	V	G	N	L	HETERLP2p	
241	T	N	R	R	V	R	L	K	N	P	F	Y	P	L	T	Q	E	S	Y	G	A	Y	A	V	M	C	L	S	V	V	I	F	G	T	G	I	I	G	N	L	HGPR37p	
	A	V	M	C	I	V	W	H	S	Y	Y	L	K	S	A	S	N	S	L	L	A	S	L	A	L	W	D	F	L	V	L	F	F	C	L	P	L	V	I	F	Majority	
150	S	V	M	C	I	V	W	H	S	Y	Y	L	K	S	A	W	N	S	I	L	A	S	L	A	L	W	D	F	L	V	L	F	F	C	L	P	I	V	I	F	HETERLP2p	
281	A	V	M	C	I	V	C	H	N	Y	Y	M	R	S	I	S	N	S	L	L	A	N	L	A	F	W	D	F	L	I	I	F	F	C	L	P	L	V	I	F	HGPR37p	
	N	E	L	T	K	Q	R	L	L	G	D	V	S	C	K	A	V	P	F	I	E	V	A	S	L	G	V	T	T	F	S	L	C	A	L	G	I	D	R	F	Majority	
190	N	E	I	T	K	O	R	L	L	G	D	V	S	C	R	A	V	P	F	M	E	V	S	S	L	G	V	T	T	F	S	L	C	A	L	G	I	D	R	F	HETERLP2p	
321	H	E	L	T	K	K	W	L	L	E	D	F	S	C	K	I	V	P	Y	I	E	V	A	S	L	G	V	T	T	F	T	L	C	A	L	C	I	D	R	F	HGPR37p	

1003163 222222

Figure 20B

	HAATSVLMKVEMIENCSSILAKLAVIWVGALLLAVPEVVL	Majority
	370 380 390 400	
230	HVATSTLPKVRPIERCQSILAKLAVIWVGSMTLAVPELL	HETBRLP2p
361	RAATNVQMYEEMIENCSSTTAKLAVIWVGALLLALPEVVL	HGPR37p
	RQLAQEDAGFSGRGTADSCI IKISASLPDSL YVLALTYDS	Majority
	410 420 430 440	
270	WQLAQEPAA--PTMGTL DSCIMKPSASLPESLYSLVM TYQN	HETBRLP2p
401	ROLSKEDLGFSGRAPAE RCIIKISPDLPDTIYVLALTYDS	HGPR37p
	ARLWWYFGCYFCLPILFTVTCSLVTARKV R GAPGRESACT	Majority
	450 460 470 480	
308	ARMWWYFGCYFCLPILFTVTCLVT-WRV RGP PGRKSECT-	HETBRLP2p
441	ARLWWYFGCYFCLPTLFTITCSLVTARKIRKA---EKA CT	HGPR37p
	RGSKHEIQLESQ LNSTVVG LTVVYGFCILPENVCNIVVAY	Majority
	490 500 510 520	
346	RASKHE-QCESQ LNSTVVG LTVVYAFCTLPENVCNIVVAY	HETBRLP2p
478	RGNKRQIQLESQ MNCTVVALTILYGFCTIPENICNIVTAY	HGPR37p
	LATGVSSQOTL D L LGLISQFL LFFKGA VTPVLL LCLCKPLG	Majority
	530 540 550 560	
385	LSTELTRQTL D L LGLINQFSTFFKGAITPVLL LCLCRPLG	HETBRLP2p
518	MATGVSSQOTMDLLNIISQFL LFFKSCVTPVLL LCLCKPFS	HGPR37p
	QAFLDCCCCCCEECGGASSAVAADGSDNELTTEVSLSIF	Majority
	570 580 590 600	
425	QAFLDCCCCCCEECGGASSEAS AANGSDNKLKTEVSSSIY	HETBRLP2p
558	RAFMECCCCC-EECIQKSSSTVTSDDNDNEYTTELELSPF	HGPR37p
	STIRRESSTLASVGTHC	Majority
	610	
465	FHKPRESPP L LPLGTPC	HETBRLP2p
597	STIRREMSTFA SVGTHC	HGPR37p

Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Decoration 'Decoration #2': Box residues that match the Consensus exactly.